

Unpredictable Habitat: Finding Temporary Wetlands in an Agricultural Prairie System

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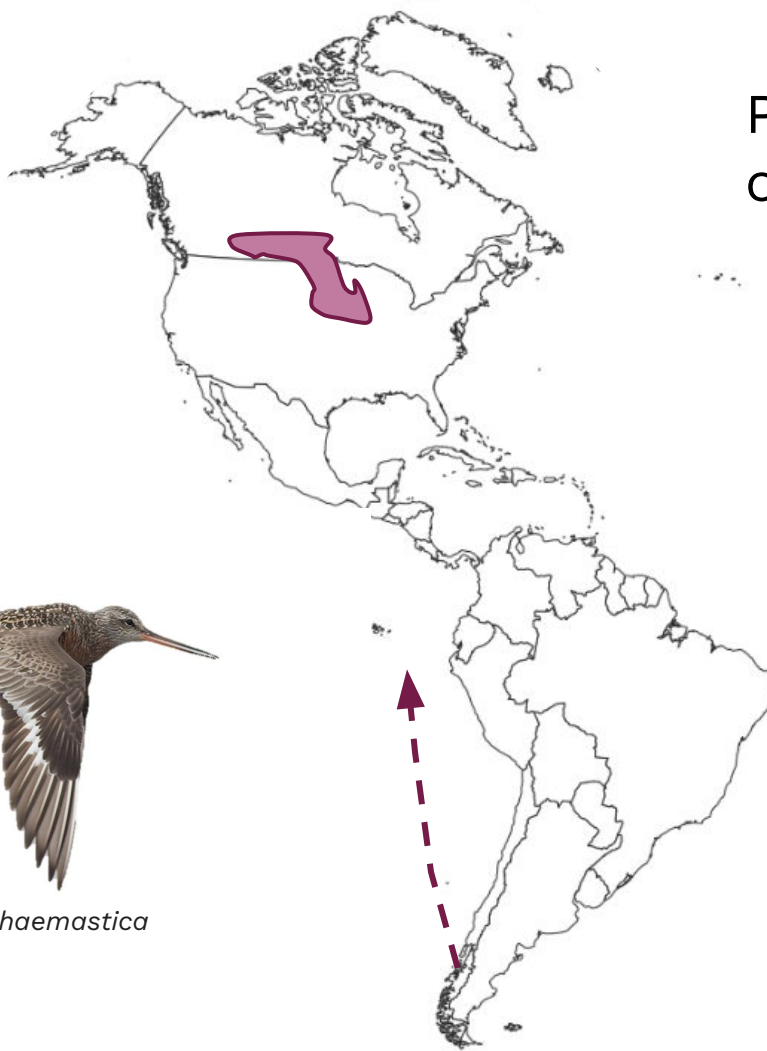
Prairie Pothole Region of North America



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Limosa haemastica





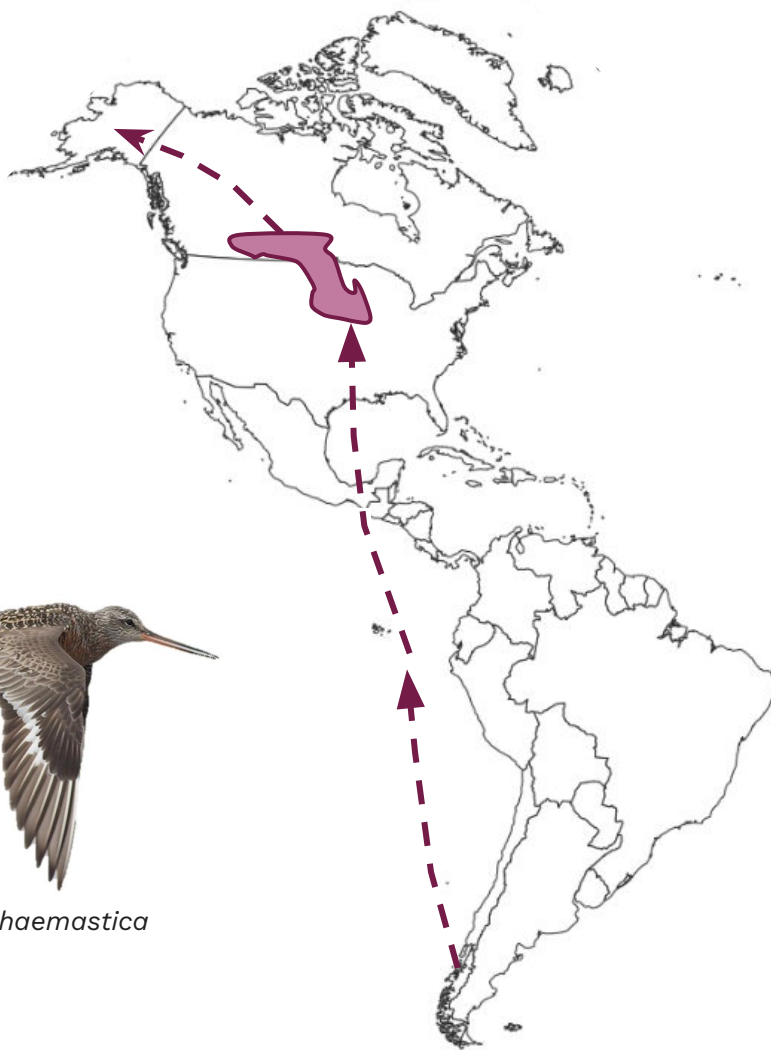
Limosa haemastica



Photos: Terry Sohl



Limosa haemastica



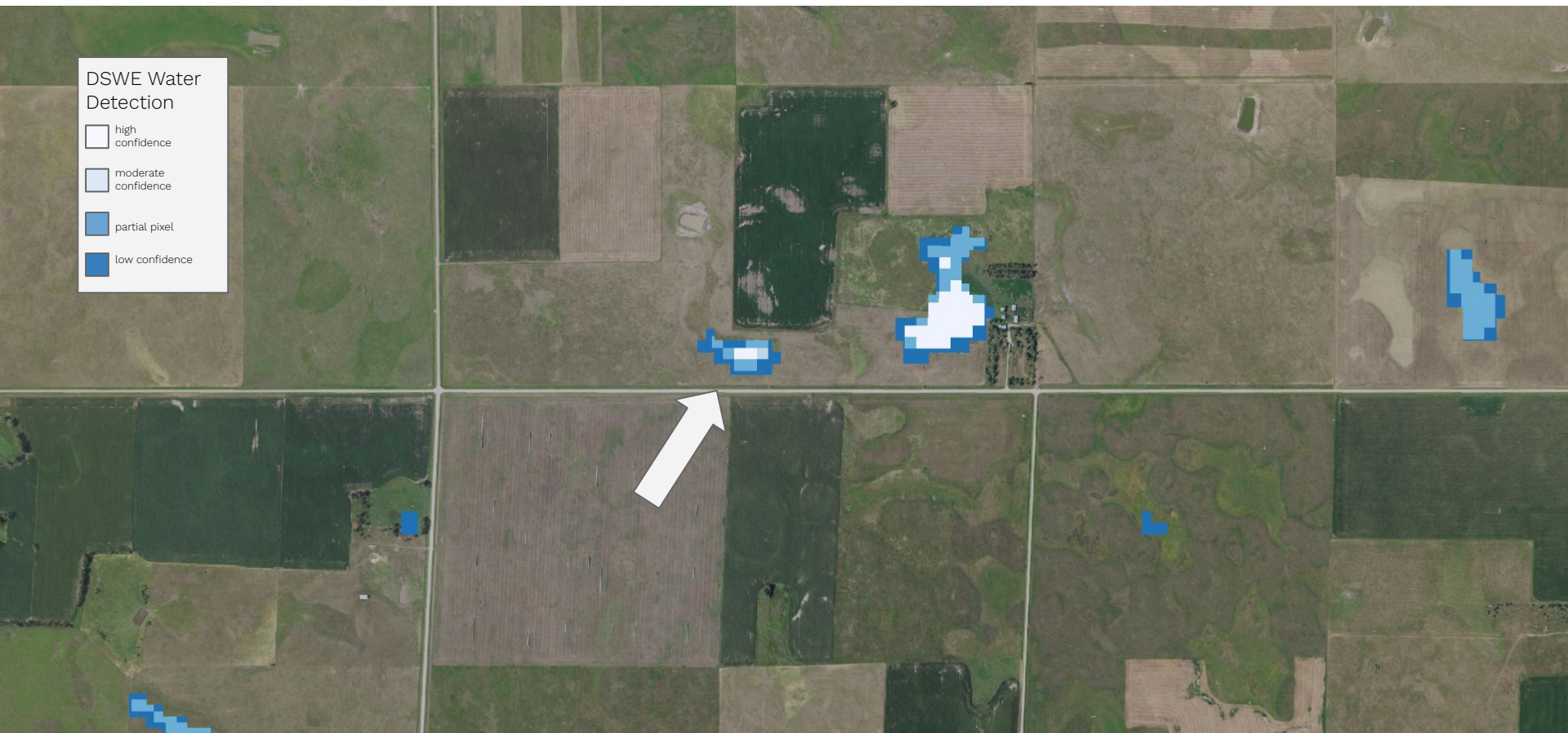
Photos: Terry Sohl

These habitats are **small, short-lived, and annually variable.**





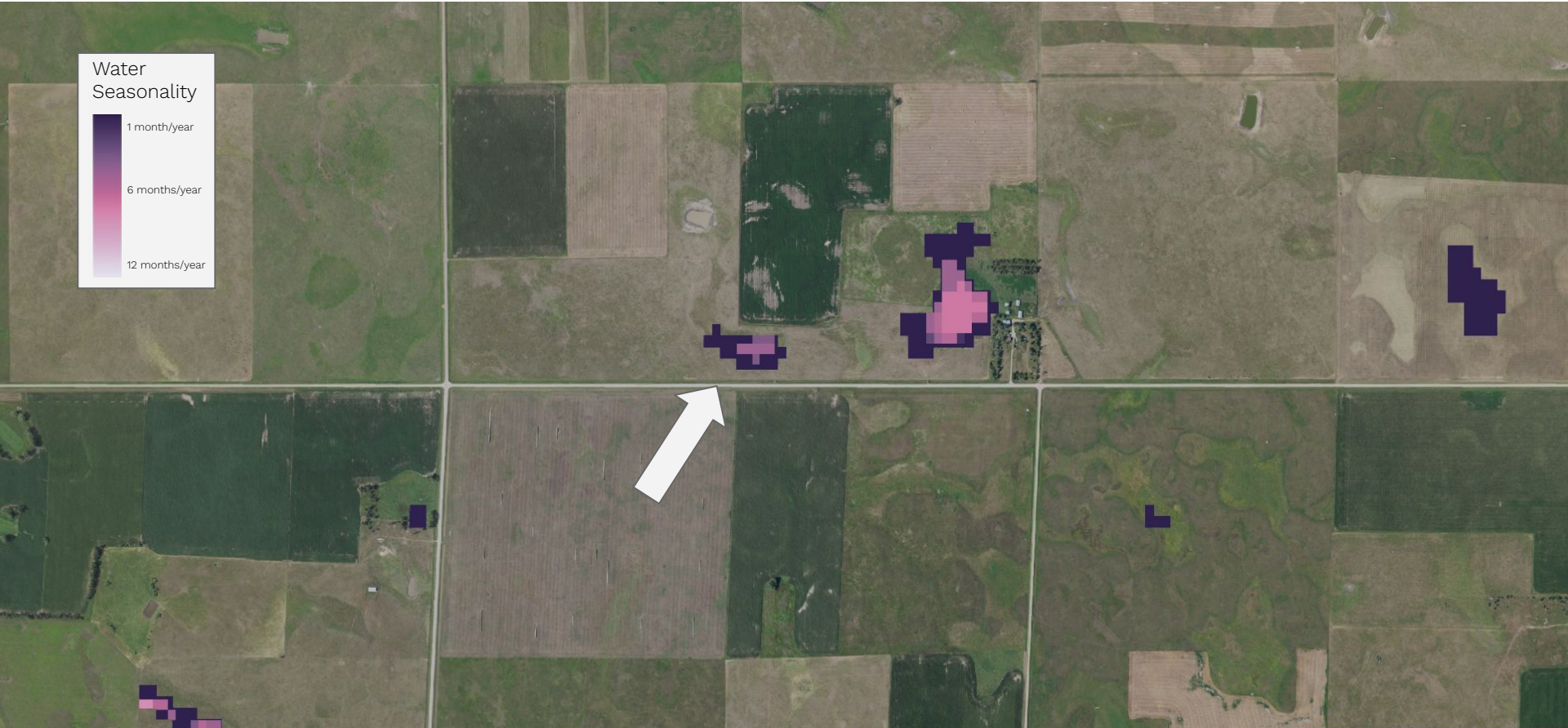
We combine **Harmonized Landsat Sentinel-2** imagery...



+ remotely sensed wetland edge characteristics



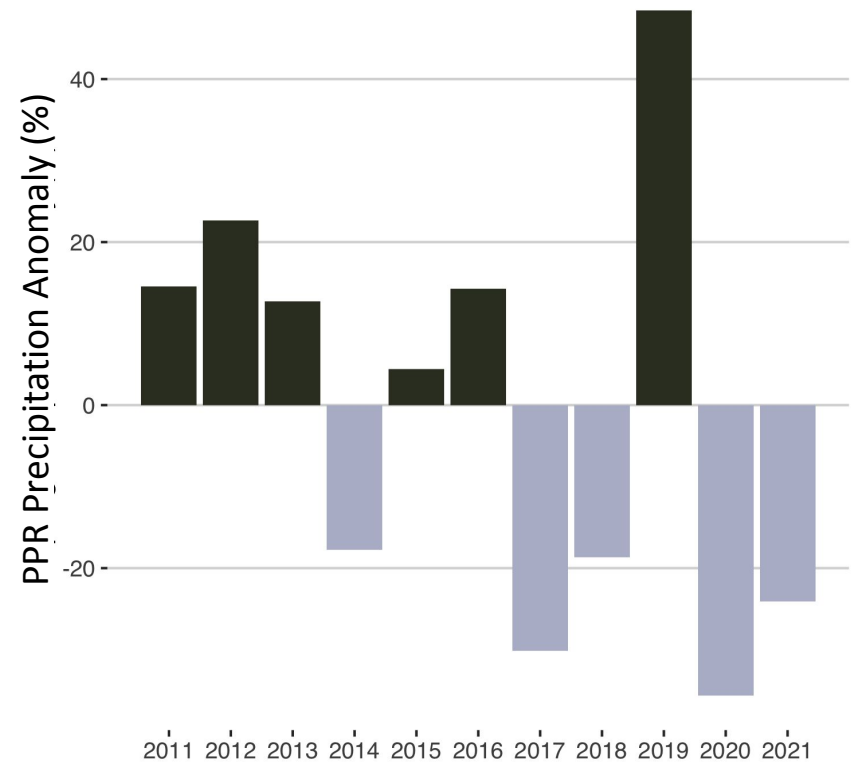
+ dynamic changes in wetland size and shape over time



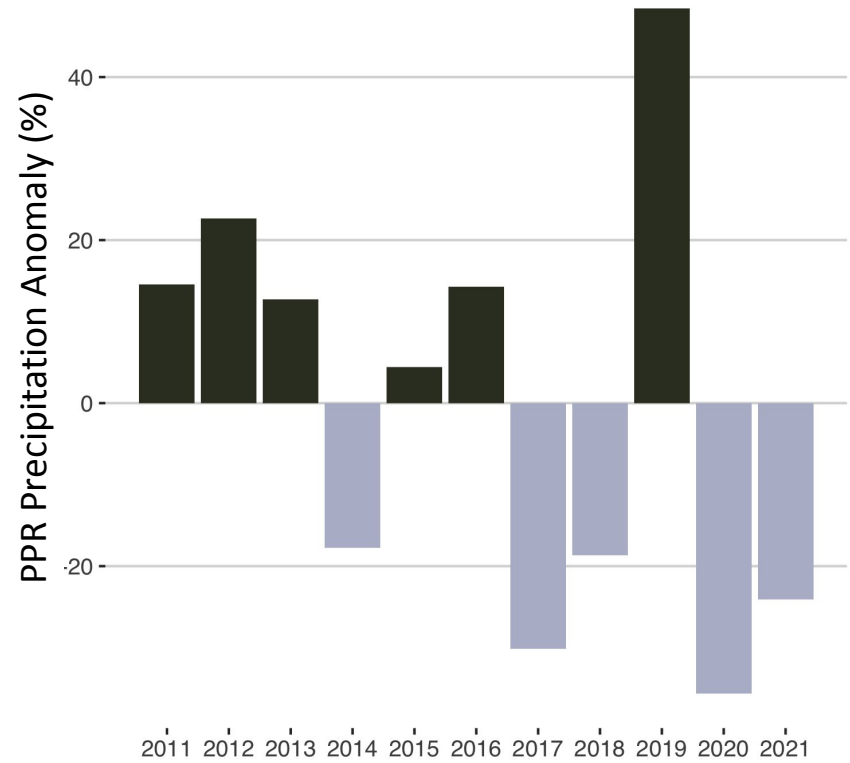
to identify **thousands** of suitable wetlands across the region.



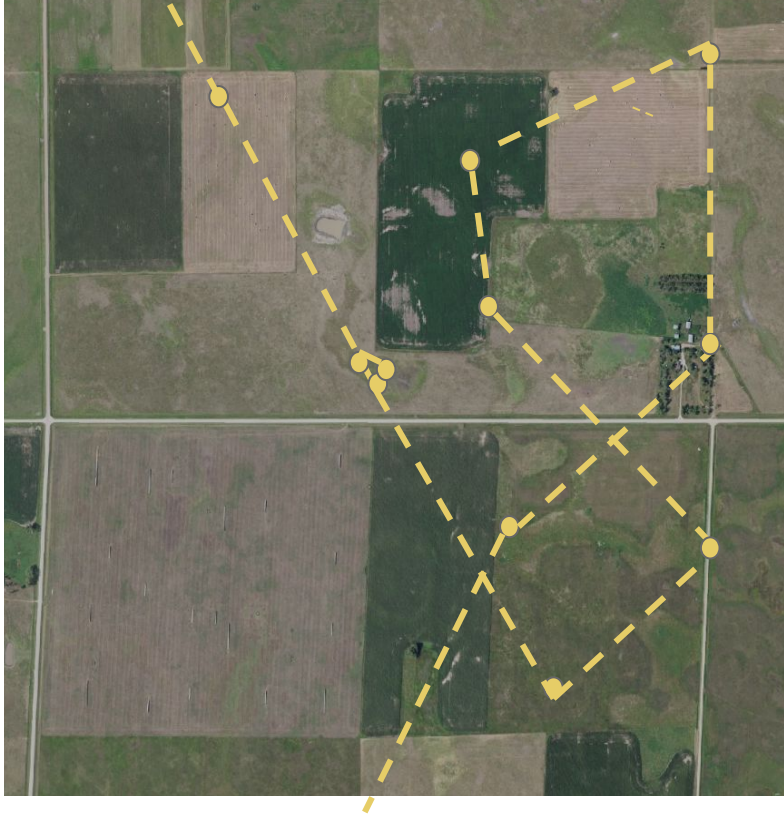
How is wetland availability **changing** over time?



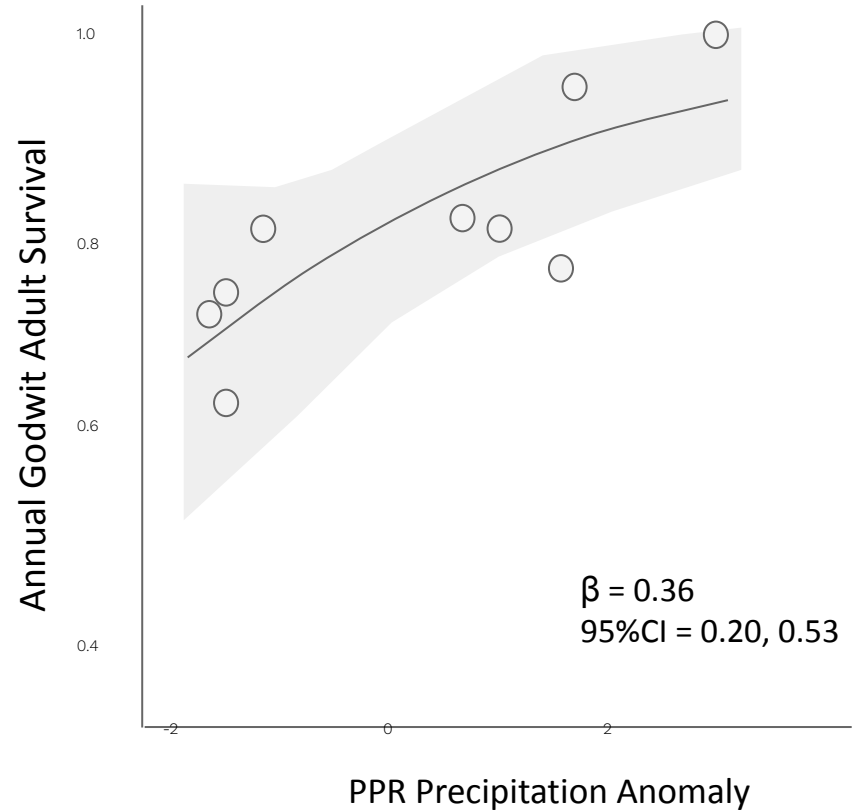
How is wetland availability **changing** over time?



How does the wetland network impact **behavior** & **survival**?



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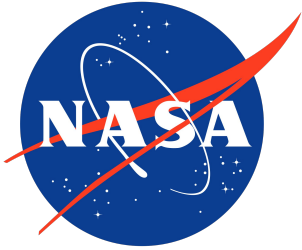
Temporary wetlands are **compatible** with farming.



Integrated management could **reduce shorebird declines.**



Thanks!



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